

WHAT IS CLAIMED IS:

1. An inverted microscope having a U-shaped microscope housing (1), on one limb (2) whereof is provided a horizontal changing surface (3) for optomechanical adaptation of a module,

wherein said module (4) comprises a horizontally protruding base unit (5) having on the one hand a binocular tube (6) placed thereon, and on the other hand a photo tube (7), with photo device (8), placed thereon.
2. The inverted microscope as defined in Claim 1, wherein the module (4) is embodied as a one-piece combination module (4; 5, 6, 7) and has on its underside a module changing apparatus (9) that corresponds to the horizontal changing apparatus (3).
3. The inverted microscope as defined in Claim 1 or Claim 2, wherein the vertical optical axis (10) of the observation beam bundle, extending in the one limb (2), penetrates through a first optical deflection element (11) after entering the base unit (5), and then passes through a first tube lens (12) arranged in the binocular tube (6), while the photo beam (13) deflected at the optical deflection element (11), after passage through a second tube lens (14) and after deflection at a second optical deflection element (15), enters the photo tube (7) with attached photo device (8).
4. The inverted microscope as defined in any of the foregoing claims, wherein the optical element (11) can be selectably brought into or out of the working position.

5. The inverted microscope as defined in any of the foregoing claims, wherein an infinity beam exists in the region of the changing surface of the module changing apparatus (9).
6. The inverted microscope as defined in any of the foregoing claims, wherein the eyepieces (16a, 16b) of the binocular tube (6) have a different degree of correction from those in the photo tube (7) or photo device (8).
7. The inverted microscope as defined in Claim 6, wherein the eyepieces (16a, 16b) have a periplan correction, and the eyepieces or TV adapters in the photo tube (7) or photo device (8) have an HC correction.